

A

B

C

D

E

F

A

B

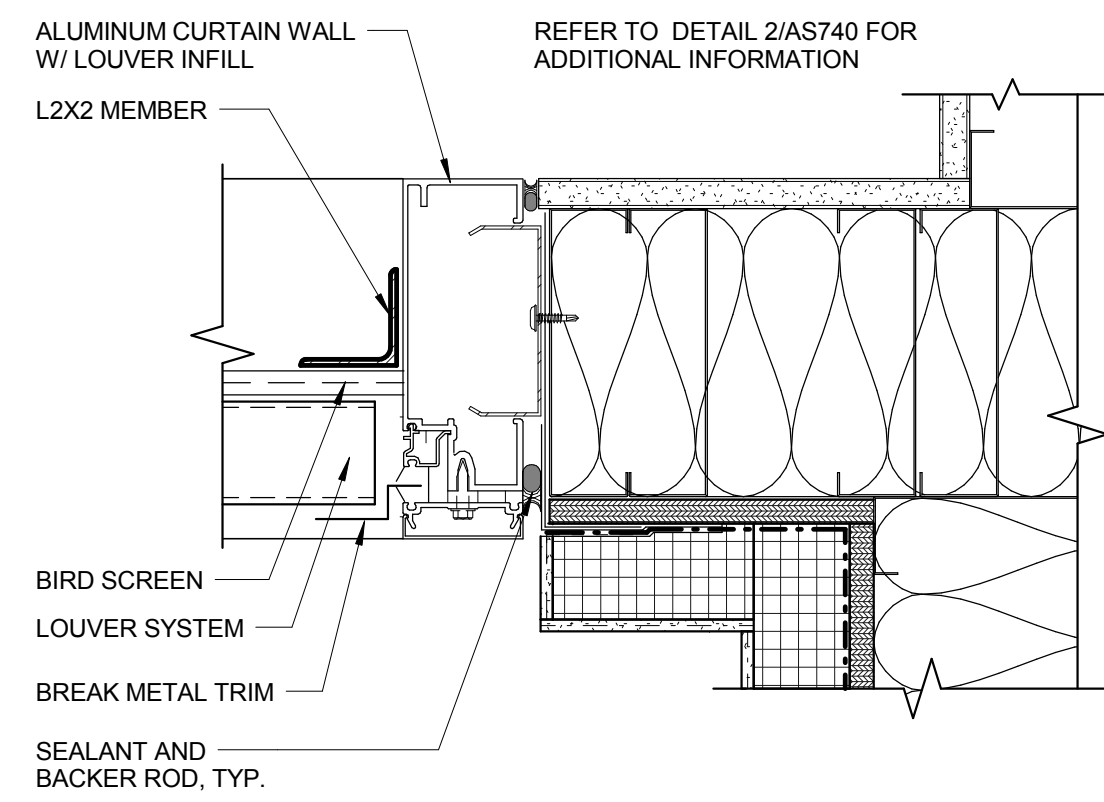
C

D

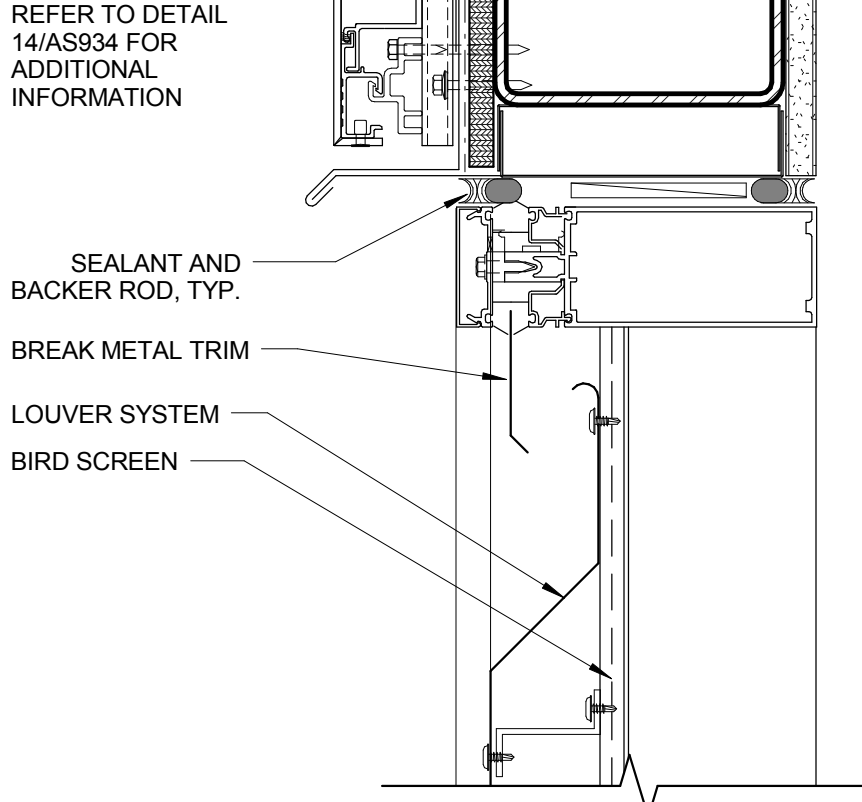
E

F

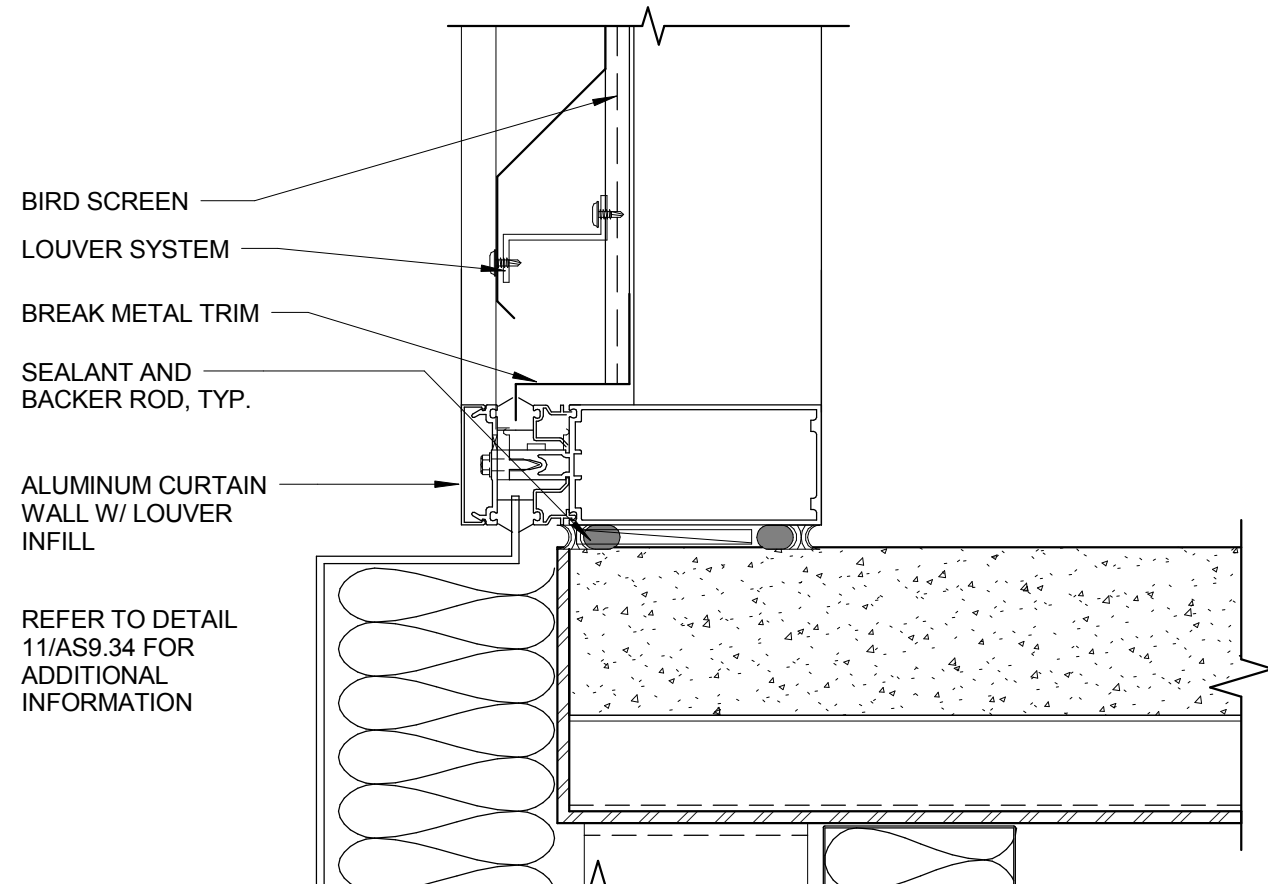
0  
6"  
three inches = one foot  
1  
0  
one and one half inches = one foot  
2  
0  
one inch = one foot  
2  
0  
three quarters inch = one foot  
4  
0  
one half inch = one foot  
4  
0  
three eighths inch = one foot  
8  
0  
one quarter inch = one foot  
4  
0  
one eighth inch = one foot  
16  
0  
one sixteenth inch = one foot



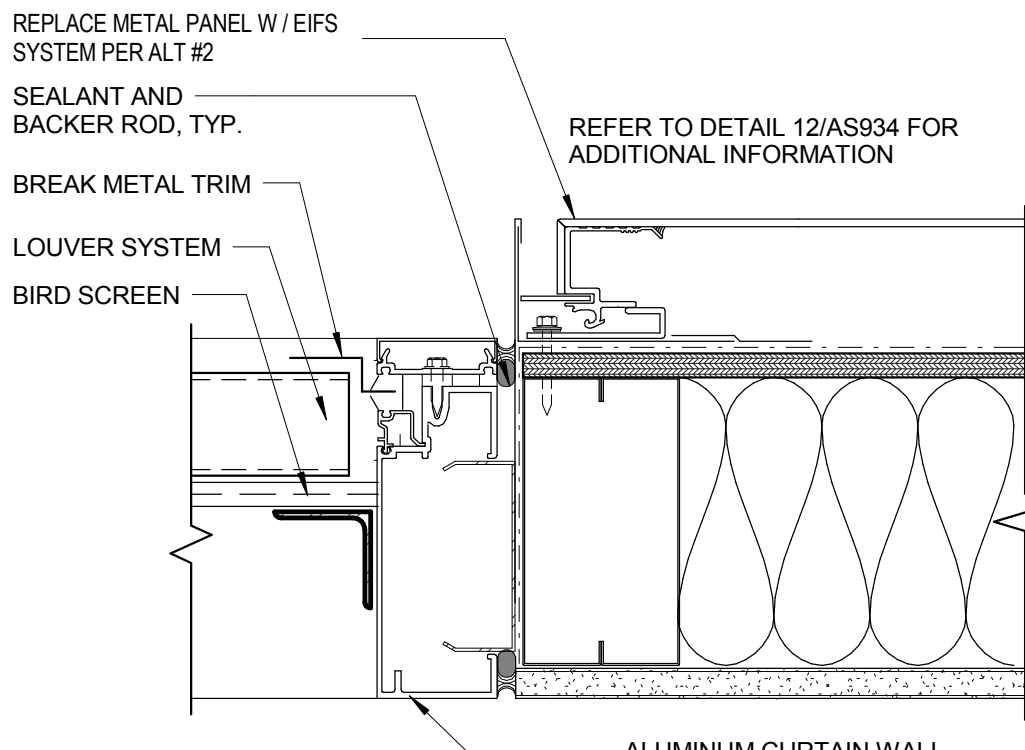
13 LOUVER JAMB AT EIFS  
3" = 1'-0"



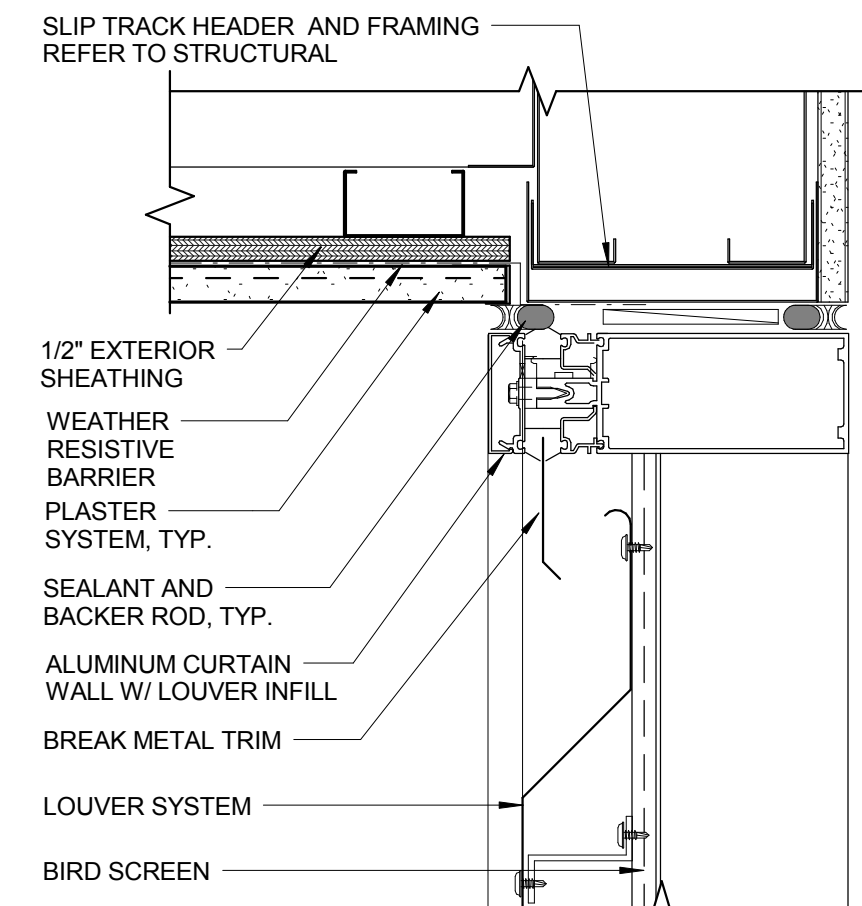
9 LOUVER HEAD AT COMPOSITE MTL PANEL  
3" = 1'-0"



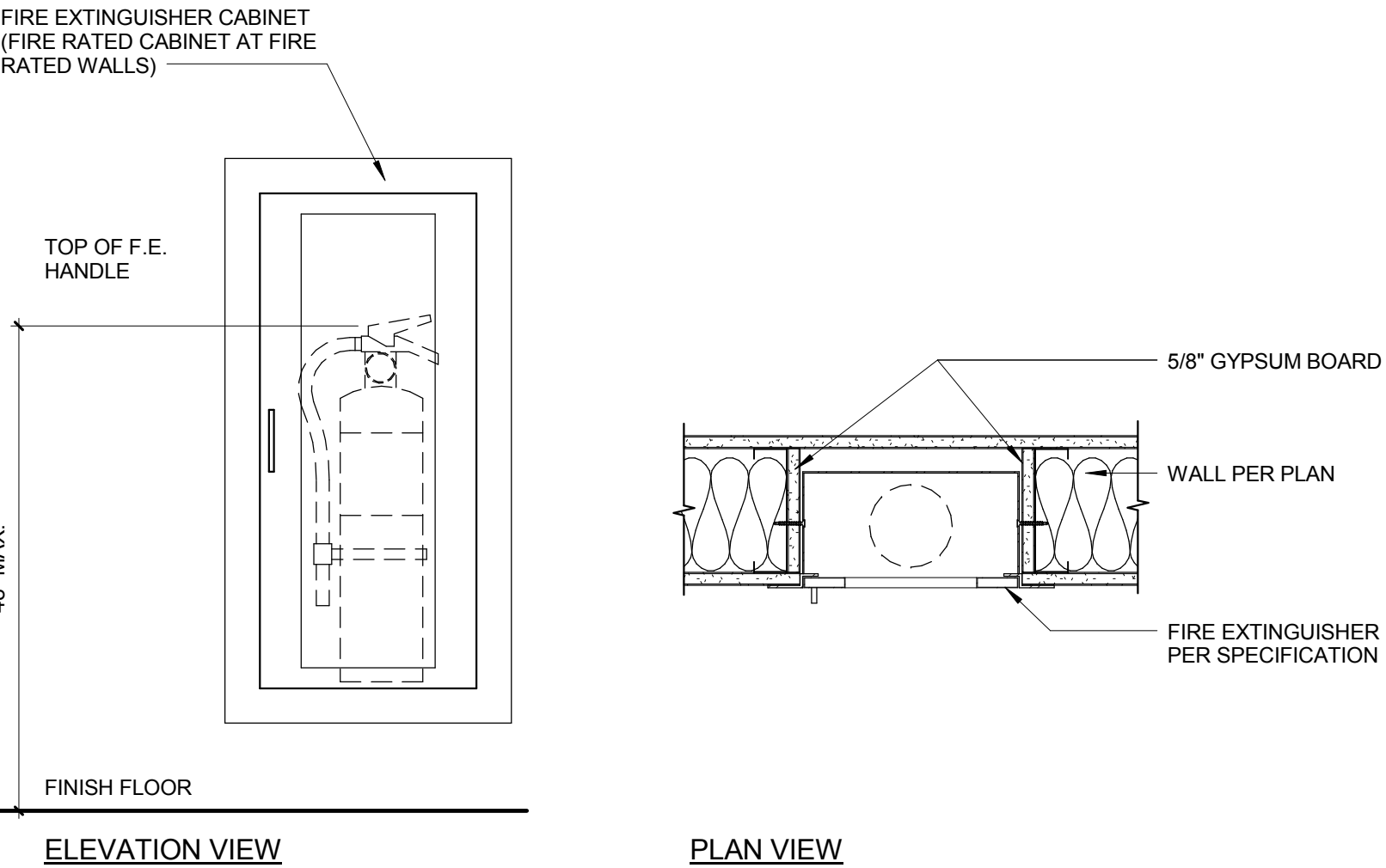
5 LOUVER SILL AT 2ND FLOOR  
3" = 1'-0"



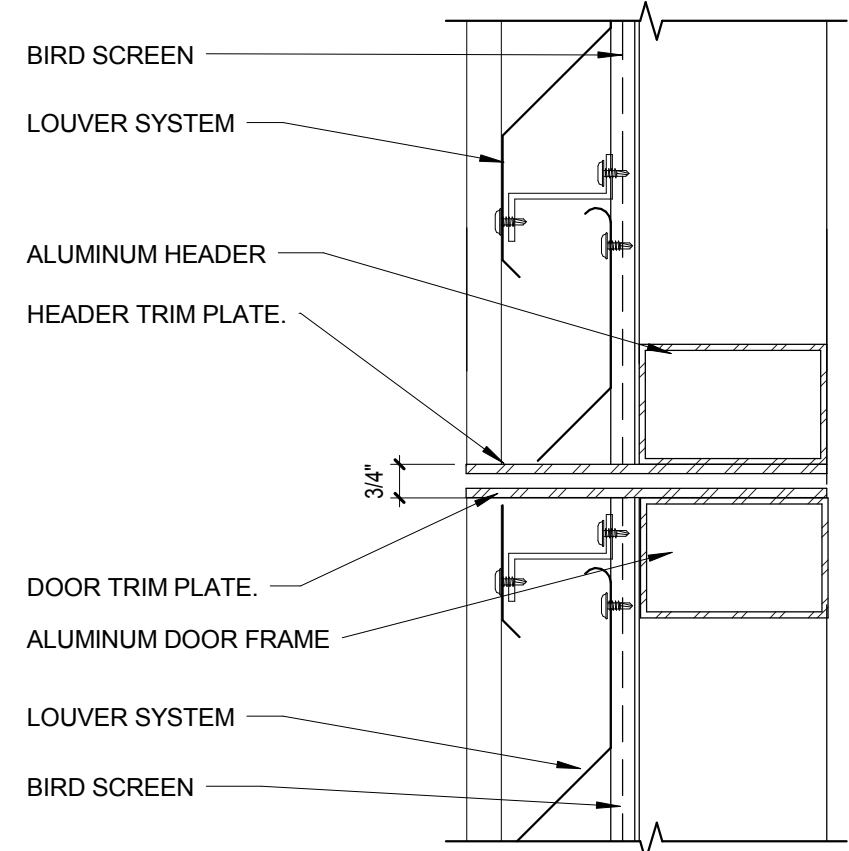
12 LOUVER JAMB AT COMPOSITE MTL PANEL  
3" = 1'-0"



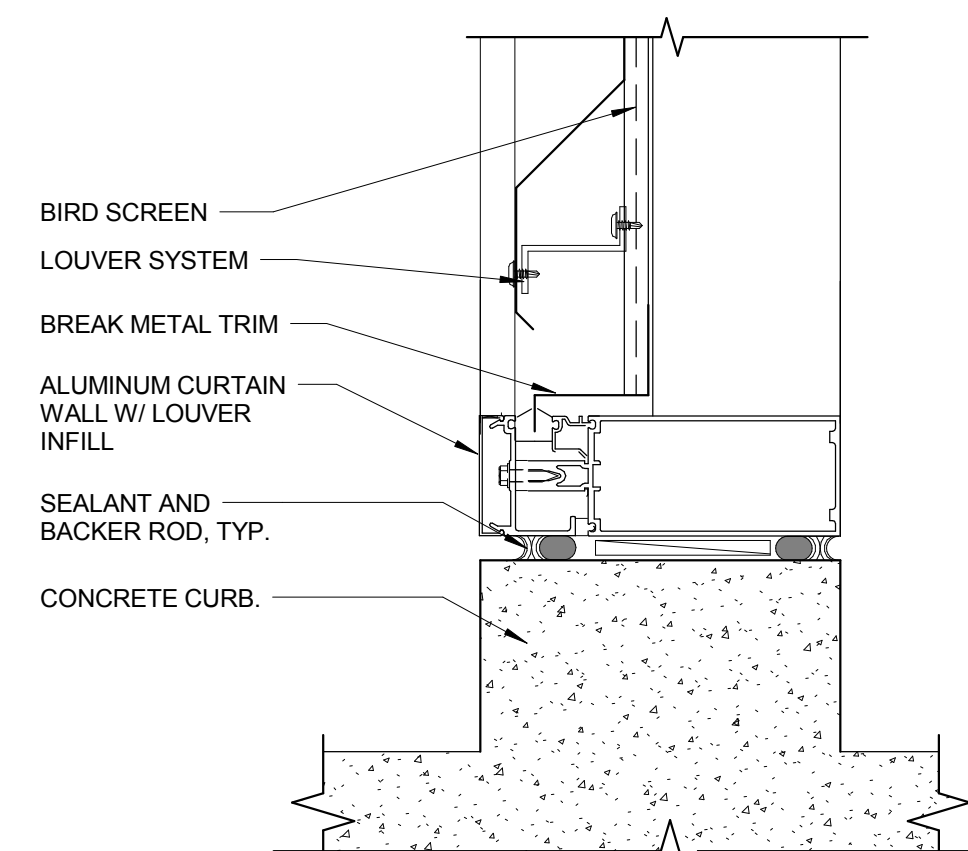
8 LOUVER HEAD AT PLASTER SOFFIT  
3" = 1'-0"



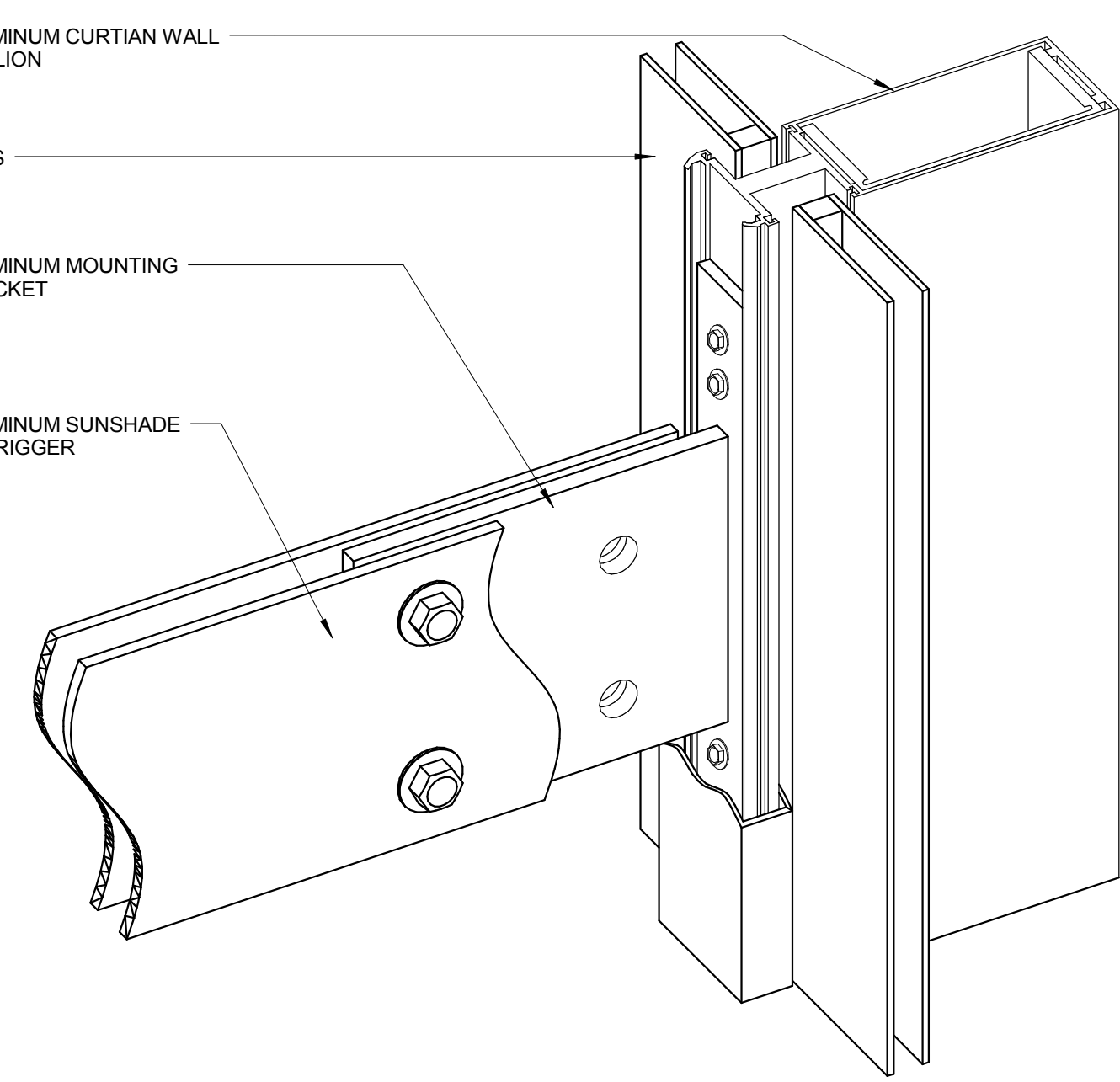
4 F.E. CABINET  
1 1/2" = 1'-0"



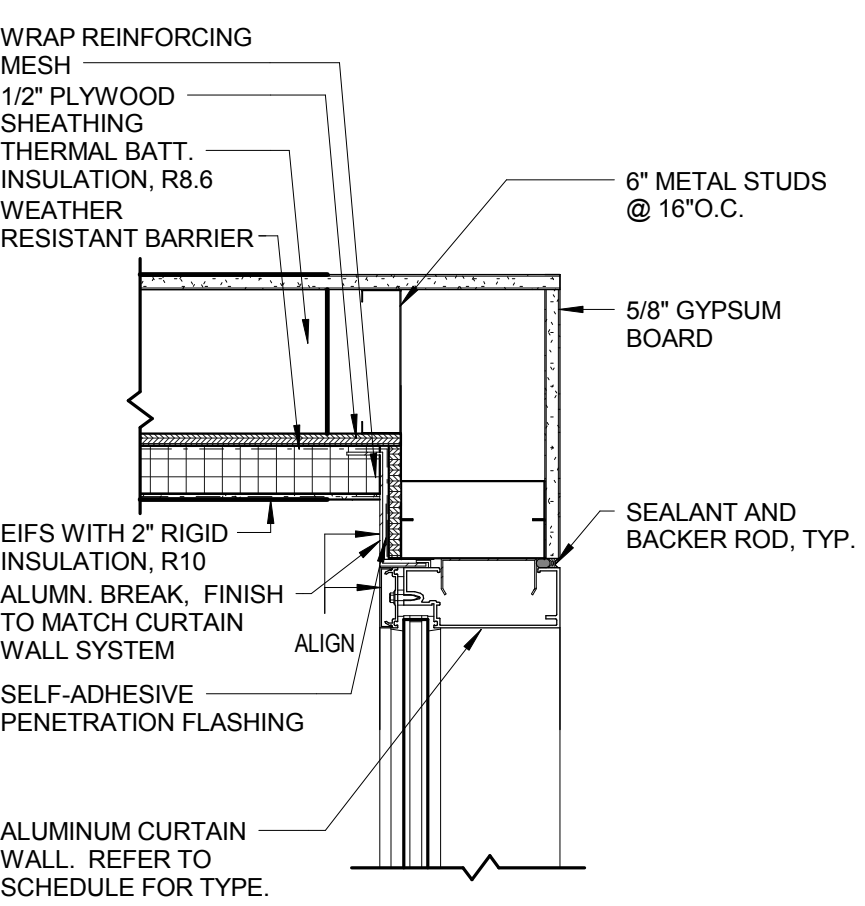
11 LOUVER DOOR HEAD AT 2ND FLOOR  
3" = 1'-0"



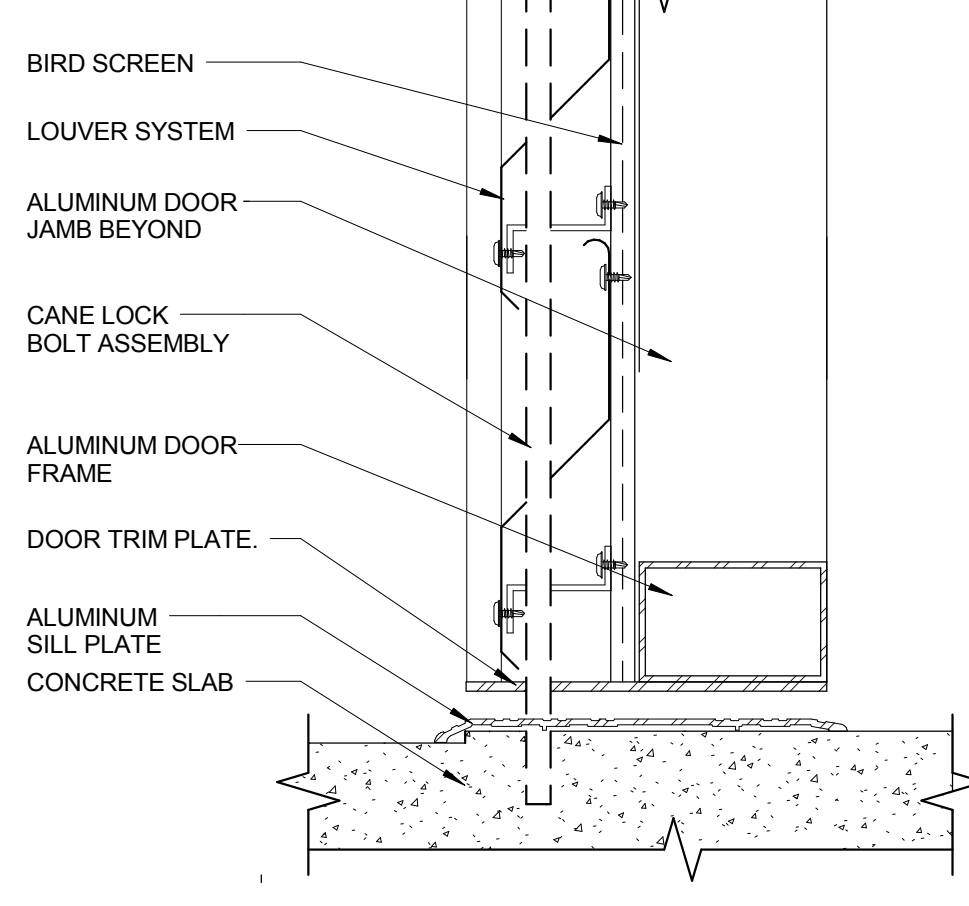
7 LOUVER SILL AT 2ND FLOOR  
3" = 1'-0"



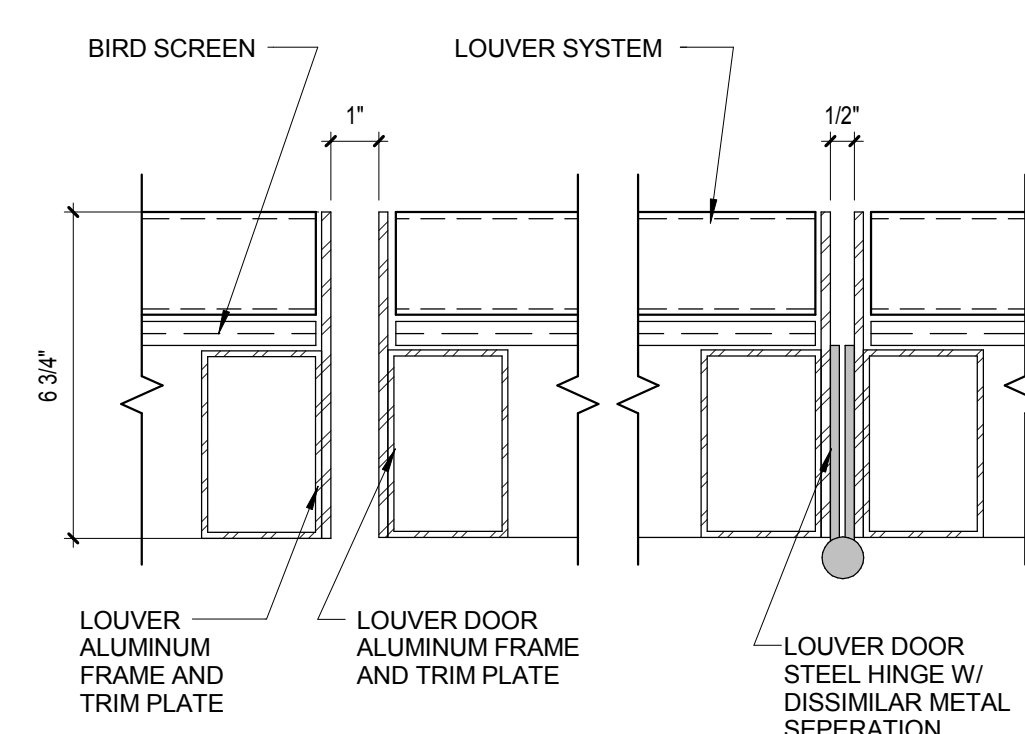
3 TYPICAL HORIZONTAL CANTILEVER SHADE-MULLION CONNECTION  
3" = 1'-0"



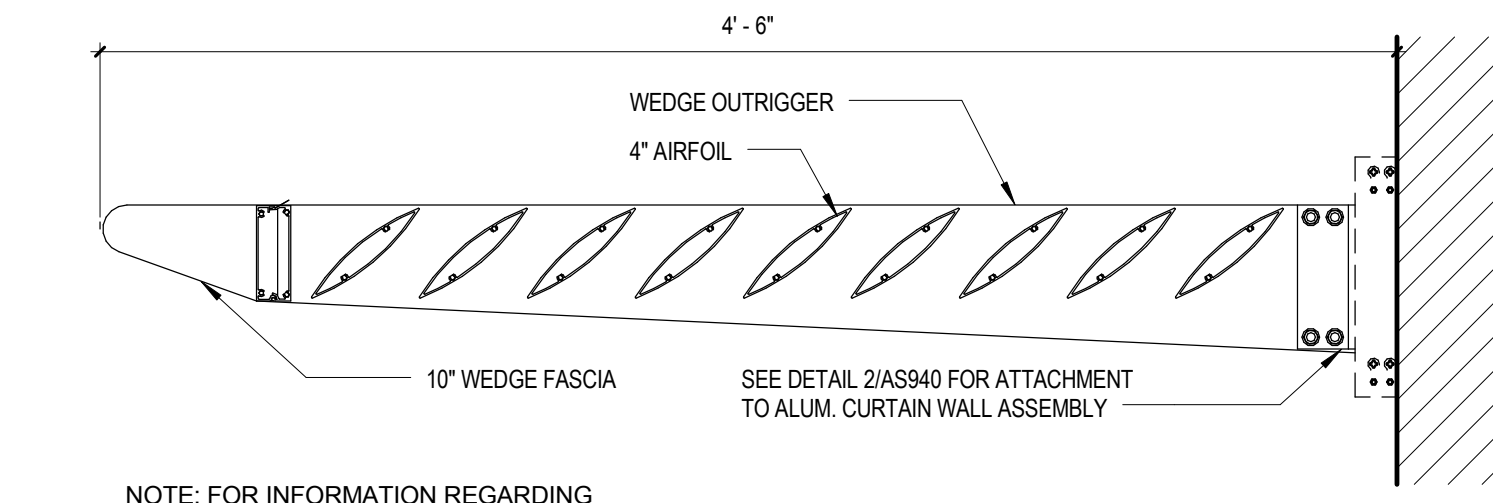
14 CURTAINWALL JAMB DETAIL  
1 1/2" = 1'-0"



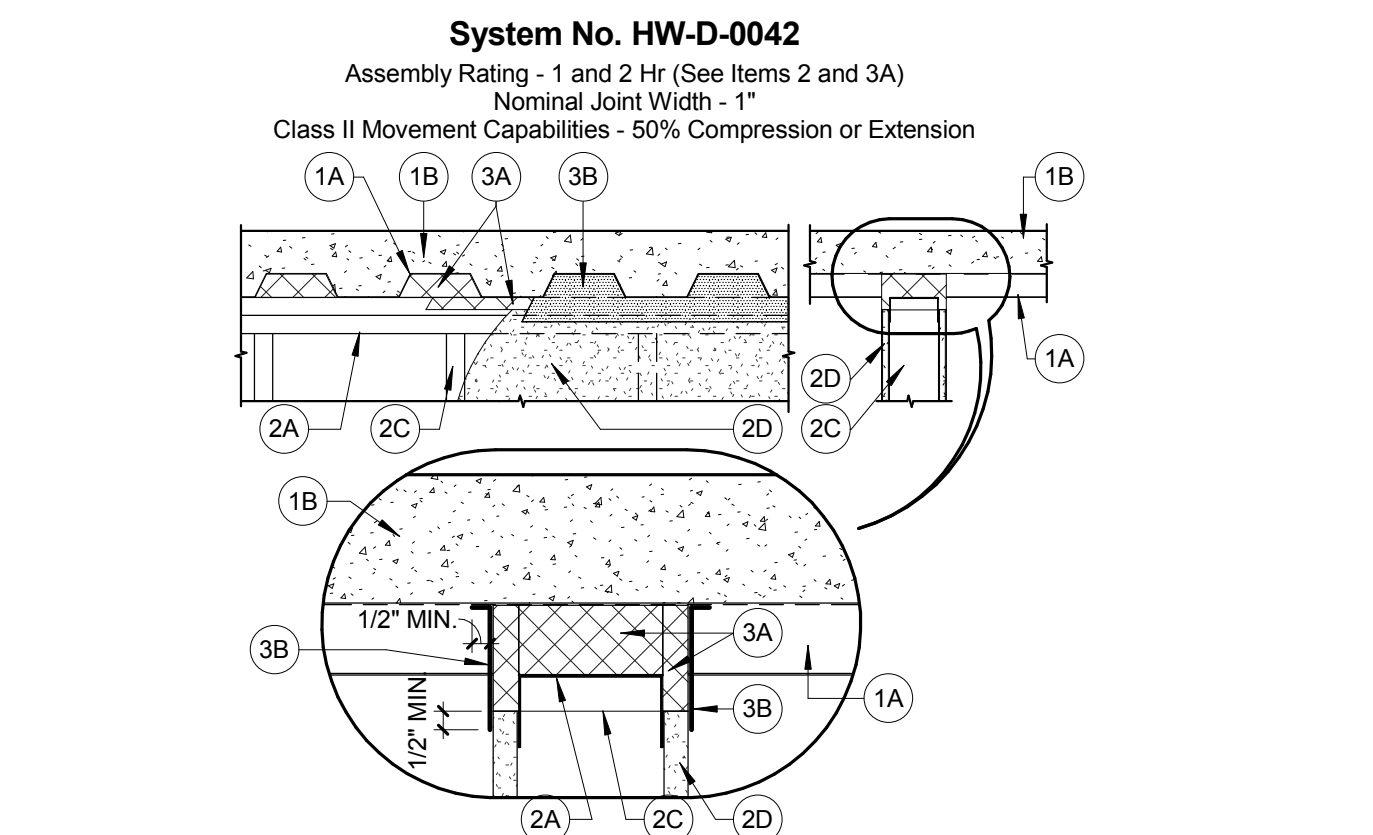
10 LOUVER DOOR SILL AT 2ND FLOOR  
3" = 1'-0"



6 LOUVER JAMB AT DOOR  
3" = 1'-0"



2 SUNSHADE OUTRIGGER ELEVATION  
1 1/2" = 1'-0"



1 Floor Assembly - The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Form Units** - Max 3 in. (76mm) deep galv. steel fluted units
- B. **Concrete** - Min. 2-1/2 in. (64mm) thick reinforced concrete, as measured from the top plane of the floor units.
- C. **Spray-Applied Fire Resistive Materials** - (Optional, Not shown) - Prior to or after the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Item 2A, 3A, 3B, respectively) the steel floor unit may be sprayed with a min. 5/16 in (8mm) to max 1-3/4 in. (45mm) thickness of fire resistive material.

WR GRACE & CO - CONN - Type MK-6-HY

1A. **Roof Assembly** - (Not Shown) - As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

- A. **Steel Roof Deck** - Max 3 in. (76mm) deep galv. steel fluted units
- B. **Roof Insulation** - Min. 2-1/4 in. (57mm) thick poured insulating concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly** - As an Alternate to Item 1 and 1A, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

- A. **Steel Roof Deck** - Max 3 in. (76mm) deep galv. steel fluted units
- B. **Spray-Applied Fire Resistive Materials** - (Not Shown) Prior to or after the installation of the steel ceiling runner, Forming Material and Fill, Void or Cavity Material (Item 2A, 3A, 3B, respectively) the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.

2. **Wall Assembly** - The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual L400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Ceiling Runner** - Floor and ceiling runner of wall assembly shall be consist of galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min. 1/4 in. (6mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runners may only be used prior to the installation of the optional spray-applied material.

A1. **Light Gauge Framing** - **Slotted Ceiling Runner** - As an alternate to the ceiling runners in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610mm) OC, before or after optional spray-applied fire resistive material is used. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runners may only be used prior to the installation of the optional spray-applied material.

BRADY CONSTRUCTION INNOVATIONS IN, DBA SLIPTRACK SYSTEMS - SLP-TRK

CALIFORNIA EXPANDED METAL PRODUCTS CO - CST

CLARKDIETRICH BUILDING SYSTEMS - Type SLT, SLT-H

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - SDT250, SDT300

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Type SLT

METAL-LITE INC - The System

OLMAR SUPPLY INC - STT250, STT300

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C - True-Action Deflection Track

B. **Steel Attachment Clips** - (Optional - Not shown) - When spray applied fireproofing is used ceiling runner may be secured to deck with Z-shaped clips formed from min 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck (prior to application of spray-applied fire-resistive material) and top of ceiling runner and secured to valleys with steel masonry anchors, steel fasteners or welds. Clips spaced max 24 in. (610mm) OC.

C. **Studs** - Steel studs to be min 2-1/2" in. (64mm) wide. Studs cut 1/2 to 3/4 in (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2" (13mm) long water head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC.

D. **Gypsum Board** - Gypsum Board installed to a min total thickness of 5/8 in. and 1-1/4" in. (16 and 32mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1 in. (25mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel deck units and the top row of screws shall be installed into the studs 3-1/2 to 4 in. (89 to 102mm) below the lower surface of the floor or roof. **The hourly rating of the joint system is dependent on the hourly rating of the wall.**

3. **Joint System** - Max separation between bottom of floor or roof and top of wall at time on installation of joint system is 1 in. (13mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of forming material and a fill material, as follows:

A. **Forming Material** - Nom 4 pcf (64kg/m3) density mineral wool batt insulation cut approx 25 percent wider than the flutes and with a length approx equal to the overall thickness of the wall. Multiple pieces stacked on top of each other, as needed, and then compressed 50 percent in thickness and inserted into the flutes of the steel deck above the top of the ceiling runner. The mineral wool batt insulation is to project beyond each side of the ceiling runner, flush with wall surfaces. Additional 5/8 in. and 1-1/4 in. (16 and 32mm) wide strips for 1 and 2 hr rated assemblies, respectively, of nom 4 pcf (64kg/m3) mineral wool batt insulation are to be cut to fill the gap between the top of the gypsum board and bottom of the steel deck. The strips of mineral wool are compressed 50 percent and tightly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel deck on both sides of the wall.

ROCK WOOL MANUFACTURING CO - Delta - Board

ROXUL INC - SAFE

THERMAFIBER INC - Type SAF

A1. **Forming Material** - **Plugs** - (Optional, Not shown) Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner, flush with wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel floor units.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP777 Speed Plugs

A2. **Forming Material** - **Strips** - (Optional) - Nom 5/8 in. and 1-1/4 in. (16 and 32mm) wide by 2 in. (51mm) high precut mineral wool strips for 1 and 2 hr rated assemblies respectively. The strips are compressed 50 percent and firmly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 787 Speed Strips

B. **Fill, Void or Cavity Material** - Min 1 1/16 in. (16mm) dry thickness (1/8 in. or 3.2mm wet thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13mm) onto gypsum board and steel deck on both sides of wall. When Spray-Applied Fire Resistive Material is applied to the Steel Floor and Form Units, the fill material is to overlap the gypsum board a min of 1/2 in. (13mm) and the Spray-Applied Fire Resistive Material a min of 2 in. (51mm) on both sides of wall. When spray-applied fire resistive materials are used, the CP 672 firestop spray shall overlap the wall a min 1/2 in. (13mm) and overlap the spray-applied fire resistive material a min of 2 in. (51mm) on both sides of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 672 Firestop Spray or CFS-SP WB

\* Bearing the UL Classification Mark

CONSULTANTS:

ARCHITECT/ENGINEERS:

HMC Architects

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T 559 322 2444 / www.hmcarchitects.com  
HMC PROJECT #1393002-000

Drawing Title

DETAILS

Approved: Project Director

Project Title  
Mental Health Psychosocial  
Rehab Recovery and Health Care  
for Homeless Veteran Center

Location  
2615 E. CLINTON AVE, FRESNO, CA 93703

Date  
08/11/2014

Checked  
WB, GV

Drawn  
JM SK

Project Number

570-217

Building Number

37

Drawing Number

AS940

Dwg. 66 of 197

Office of  
Construction  
and Facilities  
Management:

Department of  
Veterans Affairs